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WHAT IS CLAIMED IS:

1. Use of an effective amount of an F4⁺ non-pathogenic *Escherichia coli* strain to promote growth in an animal.

- Use of an effective amount of an F4⁺ non-pathogenic Escherichia coli strain to homogenize growth among a herd of animals.
 - 3. The use according to claim 1 or 2, wherein said effective amount of F4⁺ non-pathogenic *Escherichia coli* strain is associated with a feed acceptable carrier.
- 4. The use according to any one of claims 1 to 3, wherein the effective amount is at least about 5^E7 CFU of F4⁺ non-pathogenic *Escherichia coli* strain per animal.
 - 5. The use according to claim 4, wherein the effective amount ranges from about 5^E7 to about 5^E9 CFU of F4⁺ non-pathogenic *Escherichia coli* strain per animal.
- 15 6. The use according to any one of claims 1 to 5, wherein the F4⁺ non-pathogenic *Escherichia coli* strain consists of the *Escherichia coli* strain deposited at the International Depository Authority of Canada (IDAC) on January 21, 2005 under accession number IDAC 210105-01, mutants or variants thereof.
- 7. The use according to any one of claims 1 to 6, wherein the animal or animals is or are selected from the group consisting of a post-weaning animal and a post-hatching animal.
 - 8. The use according to claim 7, wherein the post-weaning animal is aged from about 10 to about 28 days old.
- 9. The use according to claim 7, wherein the post-hatching animal is aged from about 1 to about 7 days old.

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10. The use according to claim 7 or 8, wherein the post-weaning animal is a pig.

- 11. The use according to claim 7 or 8, wherein the post-weaning animal is a mouse.
- 12. The use according to claim 7 or 9, wherein the post-hatching animal is poultry.
 - 13. The use according to claim 12, wherein poultry is a chicken.
 - 14. Method of promoting growth in an animal, said method comprising the step of feeding said animal with an effective amount of an F4⁺ non-pathogenic *Escherichia coli* strain.
- 15. Method of homogenizing growth among a herd of animals, said method comprising the step of feeding said animals with an effective amount of an F4⁺ non-pathogenic *Escherichia coli* strain.
 - 16. The method according to claim 14 or 15, wherein the animal is fed orally.
- 17. The method according to any one of claims 14 to 16, wherein the animal is fed with the F4⁺ non-pathogenic *Escherichia coli* strain in association with a solid or liquid feed acceptable carrier.
 - 18. The method according to claim 17, wherein the solid feed acceptable carrier is a common solid feedstuff.
- 19. The method according to claim 17, wherein the liquid feed acceptable carrier 20 is water.
 - 20. The method according to claim 17, wherein the liquid feed acceptable carrier is milk.
 - 21. The method according to any one of claims 14 to 20, wherein the effective amount is at least about 5^E7 CFU of F4⁺ non-pathogenic *Escherichia coli* strain per animal .

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22. The method according to claim 17, wherein the effective amount ranges from about 5^E7 to about 5^E9 CFU of F4⁺ non-pathogenic *Escherichia coli* strain per animal.

23. The method according to any one of claims 14 to 22, wherein the F4+ non-pathogenic *Escherichia coli* strain consists of the *Escherichia coli* strain deposited at the International Depository Authority of Canada (IDAC) on January 21, 2005 under accession number IDAC 210105-01, mutants or variants thereof.

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- 24. The method according to any one of claims 14 to 23, wherein the animal is selected from the group consisting of a post-weaning animal and a post-hatching animal.
 - 25. The method according to claim 24, wherein the post-weaning animal is aged from about 10 to about 28 days old.
- 26. The method according to claim 24, wherein the post-hatching animal is aged from about 1 to about 7 days old.
 - 27. The method according to claim 24 or 25, wherein the post-weaning animal is a pig.
 - 28. The method according to claim 24 or 25, wherein the post-weaning animal is a mouse.
- 29. The method according to claim 24 or 26, wherein the post-hatching animal is poultry.
 - 30. The method according to claim 29, wherein poultry is a chicken.